AMENDMENTS TO THE CLAIMS

1.   (CURRENTLY AMENDED) A method comprising:

receiving a data frame by an integrated network switch;

prioritizing switching of the data frame by the integrated network switch to an output port according to a user-defined policy and based on a user-selected attribute of the data frame; and

the user-selected attribute having been detected within the data frame, the prioritizing switching including switching the data frame based on the user-selected attribute having been detected within the data frame, wherein the switching the data frame includes switching the data frame independent of priority information within the data frame.

2.   (PREVIOUSLY PRESENTED) The method of claim 1, wherein the integrated network switch includes a switching module configured for identifying a presence of an output port for each data frame based on at least one of a media access control (MAC) source address or a (MAC) destination address, the method further comprising configuring by a host processor, coupled to the network switch, the switching module to switch the data frame according to the user-defined policy based on the corresponding user-selected attribute.

3.   (ORIGINAL) The method of claim 2, wherein the step of configuring the switching module includes setting the user-selected attribute to a prescribed network switch port.

4.   (ORIGINAL) The method of claim 3, wherein the prioritizing step includes switching the received data frame according to the user-defined policy based on the data frame having been received on the prescribed network switch port.

5.   (PREVIOUSLY PRESENTED) The method of claim 2, wherein the step of configuring the switching module includes setting the user-selected attribute to at least

one of a prescribed source address or a prescribed destination address.

6.   (PREVIOUSLY PRESENTED) The method of claim 5, wherein the setting step includes setting the user selected attribute to at least one of a prescribed MAC address or a prescribed Internet Protocol (IP) address.

7.   (ORIGINAL) The method of claim 6, wherein the prioritizing step includes switching the received data frame according to the user-defined policy based on the data frame having the at least one prescribed address.

8.   (ORIGINAL) The method of claim 2, wherein the integrated network switch includes a plurality of network switch ports, the method further comprising:

detecting the user-selected attribute within the data frame by one of the network switch ports having received the data frame; and

notifying by the one network switch port the detected presence of the user-selected attribute to the switching module, the switching module in response switching the data frame according to the user-defined policy.

9.   (ORIGINAL) The method of claim 8, further comprising configuring, by the host processor, the one network switch port for detection of the user-selected attribute.

10.   (ORIGINAL) The method of claim 9, wherein the step of configuring the one network switch port includes configuring the one network switch port for detection of a prescribed data flow.

11.   (CANCELED).

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12.   (ORIGINAL) A network switching system comprising:

an integrated network switch including:

(1) a plurality of network switch ports, each network switch port including a port filter configured for determining a presence of a user-selected attribute in a received layer 2 type data frame and outputting a signal indicating the determined presence of the user-selected attribute for generation of a switching decision, and

(2) a switching module configured for generating the switching decision for the layer 2 type data frame based on the determined presence of the corresponding user-selected attribute and based on a corresponding user-defined switching policy; and

a host processor configured for programming the port filter with the user-selected attribute and the switching module with the corresponding user-defined switching policy.

13.   (ORIGINAL) The system of claim 12, wherein the port filter is configured for determining the presence of the user-selected attribute independent of a presence of a priority tag within the received layer 2 type data frame.

14.   (PREVIOUSLY PRESENTED) The system of claim 13, wherein the host processor programs the port filter for identifying as the user-selected attribute at least one of a prescribed layer 2 source address, a prescribed layer 3 source address, a prescribed layer 2 destination address, or a prescribed layer 3 destination address.

15.   (ORIGINAL) The system of claim 12, wherein the integrated network switch further includes for each network switch port at least two output queues having respective priorities, the switching module identifying a selected one of the output queues for outputting the layer 2 type data frame based on the user-defined switching policy.

16.   (ORIGINAL) The system of claim 12, wherein the host processor programs the port filter for identifying, as the user-selected attribute, information within the layer 2 type data frame that specifies a prescribed data flow.

17.   (ORIGINAL) The system of claim 12, wherein the switching module includes priority registers, each priority register configured for mapping the received layer 2 type data frame of a corresponding network switch port to a switch priority value based on the user-defined switching policy, the switching module generating the switching decision for the layer 2 type data frame in accordance with the switch priority value.

18.   (PREVIOUSLY PRESENTED) The method of claim 1, wherein the prioritizing switching includes switching the data frame to the output port from one of a plurality of available output ports.

19.   (CANCELED).

20.   (NEW) The method of claim 8, wherein the integrated network switch is implemented on a single chip.

21.   (NEW) The method of claim 1, wherein the integrated network switch is implemented on a single chip.

22.   (NEW) The system of claim 12, wherein the integrated network switch is implemented on a single chip.